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3 LAUNCH TUBE WITH ADJUSTABLE PLENUM

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5 ABSTRACT OF THE DISCLOSURE

6 A launch tube assembly including an aft launch tube portion,
7 a forward launch tube portion, and a transfer sleeve having a
8 first end fixed to and adjacent the forward end of said aft
9 launch tube portion and a second end adjustably receiving the
10 forward launch tube portion. A forward end of the aft launch
11 tube portion faces a rearward end of the forward launch tube
12 portion within the transfer sleeve. An adjustable plenum is
13 present having a volume within the transfer sleeve defined by an
14 adjusted distance between the facing ends of aft and forward
15 launch tube portions. An end cap is pinned to a forward end of
16 the forward launch tube portion, a gas generator housed in the
17 aft launch tube portion, and a countermeasure device is housed in
18 the forward launch tube portion. An adjustably selected volume
19 of the plenum is such that a gas generated by the gas generator
20 will enable propulsion of the countermeasure device at a
21 predetermined acceleration from the forward launch tube portion.